

| | Search Text | DBs |
|----|---|--------------------|
| 1 | ((orthogonal or perpendicular) with (bump or protrusion wall) and (liquid ADJ crystal ADJ display)) | USPAT; EPO; JPO |
| 2 | (liquid ADJ crystal ADJ display) with ((orthogonal or perpendicular) with (bump or protrusion wall)) | USPAT; EPO; JPO |
| 3 | ((orthogonal or perpendicular) ADJ (bump or protrusion wall) and (liquid ADJ crystal ADJ display)) | USPAT; EPO; JPO |
| 4 | (liquid ADJ crystal ADJ display) with ((bump or protrusion wall) with(orthogonal or perpendicular)) | USPAT; EPO; JPO |
| 5 | (liquid ADJ crystal ADJ display) and substrates with ((bump or protrusion wall) and (orthogonal or perpendicular)) | USPAT; EPO; JPO |
| 6 | 79 not 78 | USPAT; EPO; JPO |
| 7 | 80 not 77 | USPAT; EPO; JPO |
| 8 | substrates with ((orthogonal or perpendicular) ADJ (bump or protrusion wall)) | USPAT; EPO; JPO |
| 9 | surfaces with ((orthogonal or perpendicular) ADJ (bump or protrusion wall)) | USPAT; EPO; JPO |
| 10 | (liquid ADJ crystal ADJ display) and 83 | USPAT; EPO; JPO |
| 11 | substrates same ((orthogonal or perpendicular) ADJ (bump or protrusion wall)) | USPAT; EPO; JPO |
| 12 | (liquid ADJ crystal ADJ display) and 86 | USPAT; EPO; JPO |
| 13 | substrates with bell ADJ shape | USPAT; EPO; JPO |
| 14 | substrates and ((orthogonal or perpendicular) ADJ (bump or protrusion wall groove)) | USPAT; EPO; JPO |
| 15 | ("3698795" "3791716" "3813145" "3843231" "3961348" "4140378" "4165930" "4251137" "4255032" "4294529" "4367924" "4374612" "4389096" "4411495" "4426130" "4465355" "4536061" "4560264" "4572617" "4729640" "4729641" "4751509" "4834500" "4850681" "4850682" "5013141").PN. | USPAT |
| 16 | ("3787110" "3791716" "3869196" "4228574" "4243300" "4251137" "4362359" "4367924" "4536059" "4674840" "4729640" "4822146" "4850681" "4850682").PN. | USPAT |
| 17 | ("3530010" "3980396" "4017157" "4057326" "4178611" "4227769" "4251137" "4405405" "4444469" "4472026" "4582396").PN. | USPAT |
| 18 | ("3787110" "3957354" "4037929" "4130347").PN. | USPAT |

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| 19 | ("3150999" "3152925" "4328390" "4352948" "4379944" "4453030" "4501636" "4514583" "4608451" "4626613" "4644091" "4665277" "4759735").PN. | USPAT |
| 20 | "3293331".PN. | USPAT |
| 21 | ((orthogonal or perpendicular) ADJ (bump or protrusion\$4 wall groove\$3) and (liquid ADJ crystal)) | USPAT; EPO; JPO |
| 22 | (liquid ADJ crystal) with ((orthogonal or perpendicular) with (bump or protrusion\$4 wall groove\$3)) | USPAT; EPO; JPO |

| | Typ | Hits | Search Text |
|----|------|-------|--|
| 1 | BRS | 0 | (pixel and counter) ADJ electrode with (protrus\$4 or bump or wall) with irregular |
| 2 | BRS | 0 | (pixel and counter) ADJ electrode with (protrus\$4 or bump or wall) and irregular |
| 3 | BRS | 16 | (pixel and counter) ADJ electrode and (protrus\$4 or bump or wall) and irregular |
| 4 | BRS | 2 | (pixel) with ((protrus\$4 or bump or wall) with irregular) |
| 5 | BRS | 34 | (pixel) and ((protrus\$4 or bump or wall) with irregular) |
| 6 | BRS | 280 | 349/156 |
| 7 | BRS | 27 | 349/156 and irregular |
| 8 | BRS | 568 | substrate with irregular ADJ surface |
| 9 | BRS | 1389 | 349/158 |
| 10 | BRS | 0 | (substrate with irregular ADJ surface) and 349/158 |
| 11 | BRS | 98088 | liquid ADJ crystal ADJ display |
| 12 | BRS | 931 | (liquid ADJ crystal ADJ display) and 349/158 |
| 13 | BRS | 0 | (liquid ADJ crystal ADJ display) with 349/158 |
| 14 | BRS | 22 | (liquid ADJ crystal ADJ display) and (substrate with irregular ADJ surface) |
| 15 | BRS | 2 | (liquid ADJ crystal ADJ display) with (substrate with irregular ADJ surface) |
| 16 | IS&R | 2 | ("5926246").PN. |
| 17 | BRS | 37 | (liquid ADJ crystal ADJ display) and (substrate same irregular ADJ surface) |
| 18 | BRS | 37 | (liquid ADJ crystal ADJ display) and (substrate same irregular ADJ surface) |
| 19 | BRS | 2 | (irregular ADJ surface) and 349/158 |
| 20 | BRS | 75 | substrate with ((protrus\$4 or bump or wall) with irregular) |
| 21 | BRS | 1 | (liquid ADJ crystal ADJ display) and (substrate with ((protrus\$4 or bump or wall) with irregular)) |
| 22 | BRS | 140 | substrate same ((protrus\$4 or bump or wall) with irregular) |

| | Type | Hits | Search Text |
|----|------|------|--|
| 23 | BRS | 2 | (liquid ADJ crystal ADJ display) and (substrate same ((protrus\$4 or bump or wall) with irregular)) |
| 24 | BRS | 1389 | 349/158 |
| 25 | BRS | 1 | 349/158 and ((protrus\$4 or bump or wall) with irregular) |
| 26 | BRS | 36 | 349/158 and irregular |
| 27 | IS&R | 1 | ("6064457").PN. |
| 28 | BRS | 568 | substrate with (irregular ADJ surface) |
| 29 | BRS | 22 | (liquid ADJ crystal ADJ display) and (substrate with (irregular ADJ surface)) |
| 30 | BRS | 4119 | (protrus\$4 or bump or wall) with orthogonal |
| 31 | BRS | 48 | (liquid ADJ crystal ADJ display) and ((protrus\$4 or bump or wall) with orthogonal) |
| 32 | BRS | 48 | ((liquid ADJ crystal ADJ display) and ((protrus\$4 or bump or wall) with orthogonal)) not ((liquid ADJ crystal ADJ display) and (substrate with (irregular ADJ surface))) |
| 33 | BRS | 1330 | (liquid ADJ crystal ADJ display) with common ADJ electrode |
| 34 | BRS | 600 | ((liquid ADJ crystal ADJ display) with common ADJ electrode) and pixel ADJ electrode |
| 35 | BRS | 308 | 349/141 |
| 36 | BRS | 76 | 349/141 and (((liquid ADJ crystal ADJ display) with common ADJ electrode) and pixel ADJ electrode) |
| 37 | BRS | 2151 | interdigit\$3 ADJ electrode |
| 38 | BRS | 11 | (liquid ADJ crystal ADJ display) with (interdigit\$3 ADJ electrode) |